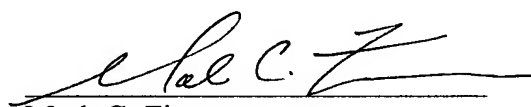


#5

PATENT



IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

Applicant: Choi	)	I hereby certify that this paper is being
	)	deposited with the United States Postal
Serial No.: 10/016,951	)	Service with sufficient postage as first
	)	class mail in an envelope addressed to:
Filed: December 14, 2001	)	Commissioner for Patents, Washington,
	)	D.C. 20231 on this date:
For: CMOS Image Sensor Having a)	
Chopper-Type Comparator to Perform	)	March 20, 2002
Analog Correlated Double)	
)	
Attorney Docket No.: 29926/38004)	
	)	Mark C. Zimmerman
Group Art Unit: 2631	)	Registration No. 44,006
	)	Attorney for Applicant
Examiner: Unknown)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

The patents listed on the enclosed PTO Form-1449 are submitted pursuant to
37 CFR §§ 1.56, 1.97, and 1.98. Copies of the patents are enclosed as necessary.

TIME OF FILING

This information disclosure statement is being filed, to the best of the undersigned's knowledge, before the mailing date of a first Office action on the merits. In accordance with 37 CFR §1.97(b), no certification or fee is required.

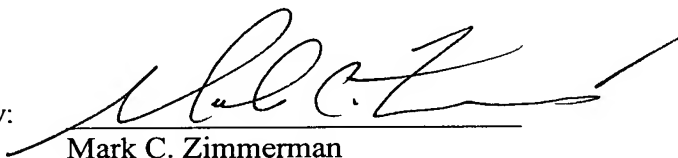
METHOD OF PAYMENT

It is believed that no fee is due for the consideration of the enclosed patent and publications, however the Commissioner is authorized to charge any fee deficiency required by this paper to Deposit Account No. 13-2855. A copy of this paper is enclosed.

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN
6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6402
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By:



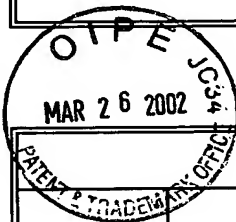
Mark C. Zimmerman
Reg. No: 44,006

March 20, 2002

Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
29926/38004Serial No.
10/016,951**INFORMATION DISCLOSURE STATEMENT**Applicant
ChoiFiling Date
12/14/01Group
2631

(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

*Examiner Initials	Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	5,877,715	03/02/99	Gowda et al.	341	122	
	5,920,274	07/06/99	Gowda et al.	341	155	
	6,025,875	02/15/00	Vu et al.	348	241	
	6,040,570	03/21/00	Levine et al.	250	208	

FOREIGN PATENT DOCUMENTS

*Examiner Initials	Document Number	Publication Date	Country	Class	Subclass	Translation	
						Yes	No
	57-139973	30.08.82	Japan	H01L	31/10	Abstract only	
	01-125071	17.05.89	Japan	H04N	5/335	Abstract only	
	04-196688	16.07.92	Japan	H04N	5/335	Abstract only	
	10-304133	13.11.98	Japan	H04N	1/028	Abstract only	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.